

SIRIUS motor starter M200D AS-i communication: AS-Interface reversing starter standard mechanical switching AC-3, 0.75 kW/400 V 0.15 A...2.00 A electronic overload protection thermistor: thermoclick / PTC without brake contact 4 DI / 1 DO AS-i Han Q4/2 - Han Q8/0

|   |   |
|---|---|
| <b>product brand name</b>   | SIRIUS  |
| <b>product designation</b>  | Motor starters  |
| <b>design of the product</b>  | reversing starter   |
| <b>product type designation</b>   | M200D   |
| <b>product function</b>   |   |
| • on-site operation   | No  |
| • control circuit interface to parallel wiring                          | No  |
| <b>insulation voltage rated value</b>                                   | 500 V   |
| <b>degree of pollution</b>  | 3   |
| <b>surge voltage resistance rated value</b>                             | 6 000 V   |
| <b>maximum permissible voltage for protective separation</b>            |   |
| • between main and auxiliary circuit                                    | 400 V   |
| • between control and auxiliary circuit                                 | 24 V  |
| <b>shock resistance</b>   | 12 g / 11 ms  |
| <b>vibration resistance</b>   | 7 mm / 2 g  |
| mechanical service life (operating cycles) of the main contacts typical | 10 000 000  |
| <b>type of coordination</b>   | 2   |
| <b>Substance Prohibitance (day/month/year)</b>                          | 07/01/2006  |
| <b>SVHC substance name</b>  | Lead CAS-No. 7439-92-1<br>Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1 |
| <b>Net Weight</b>   | 3.98 kg   |
| <b>product function</b>   |   |
| • direct start  | No  |
| • reverse starting  | Yes   |
| <b>product component motor brake output</b>                             | No  |
| <b>product feature</b>  |   |
| • brake control with 230 V AC   | No  |
| • brake control with 400 V AC   | No  |
| • brake control with 24 V DC  | No  |
| • brake control with 180 V DC   | No  |
| • brake control with 500 V DC   | No  |
| <b>product extension braking module for brake control</b>               | No  |
| <b>product function short circuit protection</b>                        | Yes   |
| <b>design of short-circuit protection</b>                               | circuit-breakers  |
| <b>maximum short-circuit current breaking capacity (Icu)</b>            |   |
| • at 400 V rated value  | 50 000 A  |
| • at 500 V rated value  | 50 000 A  |
| EMC emitted interference according to IEC 60947-1                       | CISPR11, ambience A (industrial sector)   |
| EMC immunity according to IEC 60947-1                                   | corresponds to degree of severity 3, ambience A (industrial sector)   |
| <b>conducted interference</b>   |   |
| • due to burst according to IEC 61000-4-4                               | 2 kV network connection / 1 kV control connection   |
| • due to conductor-earth surge according to IEC 61000-4-5               | 2 kV  |
| • due to conductor-conductor surge according to IEC 61000-4-5           | 1 kV  |

### Safety related data

|  |                            |
|--|----------------------------|
| <b>proportion of dangerous failures</b>  |                            |
| • with low demand rate according to SN 31920   | 50 %                       |
| • with high demand rate according to SN 31920  | 75 %                       |
| <b>B10 value with high demand rate according to SN 31920</b>                               | 1 000 000                  |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b>                       | 100 FIT                    |
| <b>IEC 61508</b>   |                            |
| T1 value for proof test interval or service life according to IEC 61508                    | 20 a                       |
| <b>Electrical Safety</b>   |                            |
| <b>touch protection against electrical shock</b>   | finger-safe                |
| <b>Main circuit</b>  |                            |
| <b>number of poles for main current circuit</b>  | 3                          |
| <b>design of the switching contact</b>   | electromechanical          |
| <b>adjustable current response value current of the current-dependent overload release</b> | 0.15 ... 2 A               |
| <b>type of the motor protection</b>  | full motor protection      |
| operating voltage rated value  | 200 ... 440 V              |
| <b>operational current</b>   |                            |
| • at AC at 400 V rated value   | 2 A                        |
| • at AC-3 at 400 V rated value   | 2 A                        |
| <b>operating power</b>   |                            |
| • at AC-3  |                            |
| — at 400 V rated value   | 0.75 kW                    |
| — at 500 V rated value   | 750 W                      |
| • at AC-3e   |                            |
| — at 400 V rated value   | 1 kW                       |
| — at 500 V rated value   | 0.75 kW                    |
| <b>product function</b>  |                            |
| • digital inputs parameterizable   | Yes                        |
| • digital outputs parameterizable  | Yes                        |
| <b>number of digital inputs</b>  | 4                          |
| <b>number of sockets</b>   |                            |
| • for digital output signals   | 1                          |
| • for digital input signals  | 4                          |
| <b>number of digital outputs</b>   | 1                          |
| <b>Supply voltage</b>  |                            |
| <b>type of voltage of the supply voltage</b>   | DC                         |
| <b>supply voltage 1 at DC</b>  | 24 V                       |
| <b>supply voltage 1 at DC rated value</b>  | 30 V                       |
| • minimum permissible  | 26.5 V                     |
| • maximum permissible  | 31.6 V                     |
| <b>Control circuit/ Control</b>  |                            |
| <b>type of voltage of the control supply voltage</b>                                       | DC                         |
| <b>control supply voltage at DC rated value</b>  | 20.4 ... 28.8 V            |
| <b>control supply voltage 1 at DC rated value</b>  | 24 V                       |
| <b>control supply voltage 1 at DC rated value</b>  | 20.4 ... 28.8 V            |
| <b>control supply voltage 1 at DC</b>  | 20.4 ... 28.8 V            |
| <b>control current at DC</b>   |                            |
| • in standby mode of operation   | 100 mA                     |
| • during operation   | 600 mA                     |
| <b>power loss [W] in auxiliary and control circuit</b>                                     |                            |
| • in switching state OFF with bypass circuit   | 2.0736 W                   |
| • in switching state ON with bypass circuit  | 4.1184 W                   |
| <b>Response times</b>  |                            |
| <b>ON-delay time</b>   | 85 ms                      |
| <b>OFF-delay time</b>  | 65 ms                      |
| <b>mounting position</b>   | vertical, horizontal, flat |
| <b>mounting position recommended</b>   | horizontal                 |
| <b>fastening method</b>  | screw fixing               |

|  |                                       |
|--|---------------------------------------|
| <b>height</b>  | 215 mm                                |
| <b>width</b>   | 294 mm                                |
| <b>depth</b>   | 159 mm                                |
| <b>Ambient conditions</b>  |                                       |
| installation altitude at height above sea level maximum              | 2 000 m                               |
| <b>ambient temperature</b>   |                                       |
| • during operation   | -25 ... +55 °C                        |
| • during storage   | -40 ... +70 °C                        |
| • during transport   | -40 ... +70 °C                        |
| relative humidity during operation                                   | 10 ... 95 %                           |
| <b>protocol is supported</b>   |                                       |
| • PROFIBUS DP protocol   | No                                    |
| • PROFINET protocol  | No                                    |
| <b>design of the interface</b>                                       |                                       |
| • AS-Interface protocol  | Yes                                   |
| • PROFINET protocol  | No                                    |
| • PROFIBUS DP protocol   | No                                    |
| <b>product function bus communication</b>                            | Yes                                   |
| protocol is supported AS-Interface protocol                          | Yes                                   |
| product function control circuit interface with IO link              | No                                    |
| type of electrical connection of the communication interface         | M12 plug                              |
| <b>type of electrical connection</b>                                 |                                       |
| • for main current circuit   | plug according to ISO 23570, HAN Q4/2 |
| • for auxiliary and control circuit                                  | connector                             |
| <b>type of electrical connection</b>                                 |                                       |
| • 1 for digital input signals  | M12 socket                            |
| • 1 for digital output signals                                       | M12 socket                            |
| • 2 for digital input signals  | M12 socket                            |
| • 3 for digital input signals  | M12 socket                            |
| • 4 for digital input signals  | M12 socket                            |
| <b>type of electrical connection</b>                                 |                                       |
| • at the manufacturer-specific device interface                      | optical interface                     |
| • for device addressing  | M12 plug                              |
| • for supply voltage line-side                                       | M12 plug                              |
| full-load current (FLA) for 3-phase AC motor at 480 V rated value    | 1.6 A                                 |
| <b>yielded mechanical performance [hp]</b>                           |                                       |
| • for 3-phase AC motor   |                                       |
| — at 460/480 V rated value   | 0.7 hp                                |
| — at 575/600 V rated value   | 1 hp                                  |
| operating voltage at AC at 60 Hz according to CSA and UL rated value | 600 V                                 |

#### Approvals Certificates

|                                 |     |
|---------------------------------|-----|
| <b>General Product Approval</b> | EMV |
|---------------------------------|-----|



|                          |              |                        |                    |                                 |
|--------------------------|--------------|------------------------|--------------------|---------------------------------|
| <b>Test Certificates</b> | <b>other</b> | <b>Dangerous goods</b> | <b>Environment</b> | <b>Industrial Communication</b> |
|--------------------------|--------------|------------------------|--------------------|---------------------------------|

[Type Test Certificates/Test Report](#)

[Confirmation](#)



[Transport Information](#)

[Environmental Confirmations](#)



#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**Information for data generation and storage**

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<https://www.siemens.com/ic10>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1325-6KS41-1AA0>

**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1325-6KS41-1AA0>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1325-6KS41-1AA0>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1325-6KS41-1AA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1325-6KS41-1AA0&lang=en)

**Characteristic curves**

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)

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